November 2022

EVRoamer

Welcome to the EVRoamer, the newsletter of the EVRoaming Foundation!

The mission of the EVRoaming Foundation is to achieve full EV roaming for everyone in an open and transparent manner, with correct information according to all consumer laws. We aim to ensure cross border access to charging infra networks and support companies and governments with the right information to achieve this.

Together with you, we aim to improving access to charging infrastructure, and to realize better services and for EV drivers.

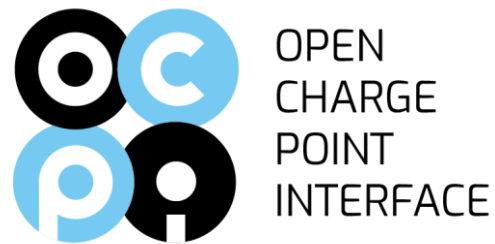*Arnaud Mora - Chairman EVRoaming Foundation and CEO Freshmile*

Dear EV Roamers,

I am very happy that, since our start in 2020 and despite all restrictions due to the pandemic, we are currently a healthy, growing**,** and relevant EVRoaming foundation, supporting the growth to maturity of our eMobility and charging infrastructure sector.

In September, we have spent a valuable day in Paris with our team of board members, going through our work thus far, and defining priorities for the coming years. I noticed the positive energy and a lot of great ideas where we can make a difference!

On **6 December** we will have our first **'General Assembly' meeting** where all our Contributors are invited for. The board will share their ideas for the future we will make sure that a lot of interaction is possible to discuss new developments and topics of interest with all contributors to our foundation. You will receive a separate invitation for this, and I am already looking forward to seeing you there!

For next year, we are planning face-to-face meetings for OCPI and other working groups, as we have noted the need and value of such meetings. Also, some external sessions/events are foreseen.

Meanwhile, a recent development in Europe is the agreement of the European Parliament for the new AFIR regulation for alternative fuels. Overall, a good development. But, very much to our regret, a requirement has been included that demands the installation of payment terminals on all (!) new and existing charging stations. It is needless to tell you how this proposal completely neglects all (!) the possibilities that are already available with the roaming options that our contributors provide via OCPI and other options. As this was not a requirement proposed by the European Commission, I am hoping that this requirement will initially be changed in negotiations with the European Commission and the European Council. Therefore, my urgent message to all EVRoaming contributors: please address this issue with your national government, and let's make sure that we don't go back in time and waste our money with unnecessary payment solutions.

OCPI update

The latest version OCPI 2.2.1

The EVRoaming Foundation is working very hard with its Contributors on OCPI Development. While working on OCPI 3.0, we do recommend installing and use OCPI 2.2.1.

At the EVRoaming website you can find a complete overview with all improvements and download OCPI v2.2.1 for free OCPI Downloads | EVRoaming Foundation.

OCPI v3.0 Roadmap and developments

Via bi-weekly Work Group sessions with Contributors of the EVRoaming Foundation, we are making good progress with OCPI 3.0. The expected release date of OCPI 3.0 is December 2023. However, several improvements

will already be usable in combination with v2.2.1. We have already published the Business Use Cases and are updating these on a regular basis. You can download the lastest version of the Business Use Cases for OCPI v3.0 via the website: OCPI Downloads | EVRoaming Foundation

In the coming months we will publish improvements for:

- Additional fields for locations to support larger vehicles, trucks and vehicles with trailers or caravans
- Additional fields for locations to support the usability of charge stations by disabled persons.

For this, we are working together with the European Commission via the Sustainable Transport Forum and with the Office for Zero Emission Vehicles (OZEV) in the UK.

Other developments are:

- Improved Smart Charging support: with input from our Contributors, we are finalizing the use cases for Smart Charging
- A more secure and faster messaging system is being developed to better support the huge amounts of session information, CDRs and the dynamic status changes for charging stations.
- Support of pre-paid charging sessions
- An improved tariff module with an improved explanation on how to use it.
- Status information for CDRs to better support.

Other new developments

Data Collection tool

Many CPOs and MSPs received questions to share charging information with all kinds of organisations e.g., municipalities, governments, universities, etc. Many of them want slightly different sets of data for all kinds of purposes: contract monitoring, research or to make prognoses and define future policies. A lot of this information is already shared between CPO and MSP via OCPI and could be reused, but this is not always the right data set, or it contains potential privacy sensitive information.

To deal with this, the EVRoaming Foundation is developing an Open-Source tool that can be used to deal with this in a uniform way. This tool will be freely available for our contributors at the end of this year and should support CPOs without needing to develop many different API's to all kind of organisations.

Follow us via LinkedIn or become a Contributor to keep up to date with this. It will also be shared via the OCPI and EVRoaming Slack groups.

Pricing and tariffs

Part of OCPI v3.0 will be the improved support for tariff exchanges. A proper information protocol can support market players with pricing arrangements and tariff management, especially when choosing for P2P roaming agreements where companies can make their own decisions.

However, there is little alignment in countries (and between countries) on the design of such tariff structures and many exotic variants exist. Also, there are many different solutions in place for sending tariff updates to counterparts and service providers. This makes it more difficult to guarantee the correctness of the tariffs presented.

The EVRoaming Foundation will therefore set up a working group for Tariff management and -exchange. In collaboration with a broad group of contributors, and in alignment with international institutions, proposals will be drawn up that work towards a more standardized tariff management system and a standardized process for providing tariff updates. Contributors are welcome to participate and provide their experiences and expertise. We are aiming for a round table in the first quarter of 2023 to kick off this work.

Standardized roaming contracts

One of the big issues with EV roaming is the setup and management of contracts and partnerships. The EVRoaming foundation already initiated a 'Roaming dating pool', to better facilitate getting in touch with CPOs and MSPs for setting up roaming agreements. This will be extended by offering standardized contracts to support faster and easier connection between parties.

Testing environment

OCPI is successfully used worldwide as the roaming protocol of choice, which means that it needs to be able to fit with many different local market

designs, as well as many different legal frameworks. The downside of this wide variety is that it makes it harder to ascertain that a CPO, MSP, or any other party has a good OCPI implementation that functions successfully in multiple settings. Besides that, we are working on improved implementation documentation, to further simplify the installation of OCPI.

To further smoothen implementation and better guarantee the quality of the implementation across different contexts, the EVRoaming Foundation will offer in the coming months a testing environment with detailed checks on the correctness of an implementation. This is currently being developed and set up in close collaboration with several Contributors of the EVRoaming Foundation. More info will follow soon.

OCPI with ISO15118, V2G and Plug N Charge.

OCPI is already able to be used with ISO15118, PlugnCharge and Vehicle-to-Grid (V2G). We are following the developments closely and are keeping track of the status and, when needed, any changes in OCPI.

The EVRoaming Foundation is a strong supporter of open information protocols that serve the community, without ownership claims or profit models and with a free choice between systems and partners. We strive to implement any new functionality in OCPI as soon as a mature and stable version has been agreed upon that is embraced by the broad community and supported by our contributors.

Global support of OCPI

In many areas in the world, we see strong support for OCPI as the open independent roaming protocol. Of choice. The National Electric Vehicle Infrastructure Formula Program from the United States recommends using OCPI and OCPP as the main protocols for roaming and interoperability. From Asia and Australia there is also a growing interest in roaming and OCPI. As EVRoaming Foundation we support this, not only via OCPI, but also via presentations at several congresses, explaining the value of open accessible

and understandable EV charging systems where roaming and interoperability are key elements in this.

New contributors

The EVRoaming Foundation is growing fast, and we are very happy to welcome many new organizations as Contributors: Google, S44, Multi Tank Card, PlugSurfing, Engie, Shell Global Solutions, Plugo, Volvo Trucks, Driivz, Vourity AB, Climate Tech Assembly, Office Zero Emission Vehicles (OZEV) /Department for Transport, Polish Alternative Fuel Association (PSPA).

Collaboration space

The EVRoaming foundation has chosen Slack as main workspace and communication tool. The OCPI Slack community will stay for the released versions of OCPI and for basic support. The new EVRoaming Slack community is only available for contributors and sponsors and will be used for all activities of the foundation.

Values and Goals of EVRoaming Foundation

The objective of the EVRoaming Foundation is to facilitate roaming services for charging electric vehicles and provide transparent information to

consumers about charging locations and prices, by use of the open and independent Open Charge Point Interface (OCPI) protocol. The goal is to allow any EV driver to charge at any charging station in the on their continent: simplify, standardize, and harmonize.

The EVRoaming Foundation will do this via the following activities:

- Informing CPO's, MSP's, Governments, and other parties about the importance of open access to charge infrastructure and right information sharing with EV drivers
- Policy influencing via whitepapers, discussions with policy makers, etc
- Creating informative webinars
- Contributing to and participating with EU and other projects
- Acting as independent knowledge centre for all stakeholders
- The EVRoaming Foundation also manages and maintains the OCPI protocol and ensure its free availability. The foundation is not limited to OCPI and can also support other related activities and services.

We see a lot of interest in getting more and better and open access to charge infrastructure. Meanwhile we see also more focus on price transparency, correct meter values and connections of networks to National Access Points. The EVRoaming foundation supports this together with its contributors and sponsors.

OCPI will stay free to use! And the OCPI community will stay, for basic support.

At the end of this newsletter, you find an attractive introduction offer to join the EVRoaming foundation.

How to join?

There are 4 levels for participation:

- **Associate Contributor**: Organisation that wishes to be connected to the protocols managed by the EVRoaming Foundation, but is not actively involved in protocol development. These can be associations, consultancies or academic institutes.
- **Full Contributor**: Organisation that implements the protocols managed by the EVRoaming Foundation and is actively involved in the development, maintenance and support of the protocols or actively participates in activities of working groups.

- **Managing Contributor**: Full Contributor who has the right to appoint a board member from his/her organisation. For this elections will take place.
- **Sponsors**: Organisation (in the public or private sector) that supports EVRoaming and the protocols managed by the EVRoaming Foundation, but is not actively involved in protocol development. These may include municipalities, research or consulting groups, laboratories, regulatory bodies or universities.

You can download, sign and return the Contributor agreement here:

<u>CONTRIBUTOR AGREEMENT</u>

<u>Do you like the newsletter? Share it!</u>

The EVRoaming Foundation manages and maintains the OCPI protocol and ensures its free availability, to guarantee roaming according to open standards for any EV driver.

www.evroaming.org Contact? Mail: info@evroaming.org

Follow the latest news about EVRoaming at: